

## ABSTRACT OF THE DISCLOSURE

The present invention provides methods, systems, and computer program products for normalizing document search terms through use of an alias database, as may be found in an alias relationship file, such as a directory service. A gatherer module receives as input (or crawls through) several documents in series or in parallel and can recognize data segments as related to one of the aliases in the alias relationship file. The gatherer then associates the document appropriately so that a search engine may find all documents associated with a search term, regardless of whether the term has undergone several name changes (various aliases) over the course of time. Accordingly, a user may then search for a person's name, and receive as a search result all documents listing the person's name, as well as documents listing, for example, only the person's email address.

WORKMAN, NYDEGGER & SEELEY  
A PROFESSIONAL CORPORATION  
ATTORNEYS AT LAW  
1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111

W:\13768\417\MJF0000000230V001.doc